



MATES Computer Science

Senior Capstone Project Bi-Weekly Progress Report

Project Title	Bookish
Team Members	Malia Porter & Caleigh Wlazlowski
Dates Covered by Report	3/11/24 - 3/22/24
Link to Github	https://github.com/caleighwlaz/Bookish

1. Summary of Project

Our project is to create a website for readers to track their reading history, view book and user leaderboards, and possibly get recommendations. The site will allow readers to set goals to reach and add books to their reading list. Users will also be able to keep track of their reading activity and discover new books to read. Through the front-end (Malia), HTML, CSS, and JavaScript will be used to create the website and the design elements. Through the back-end (Caleigh), Python, JavaScript, and MySQL will be used to calculate statistics for each user (such as average pages per book and average pages read per week), manage databases, and allow users to search for books on the website and add them to their lists. The concept of our website is similar to Goodreads with additional features such as book and user leaderboards.

2. Summary of Progress this Period

This progress period, Caleigh finished uploading the book covers to GitHub, continued working on the “Back-End Engineer” career path, and uploaded the book covers dataset into Python and Jupyter Notebook files. Malia added a favicon for the website, designed pages in Google Drawings, installed Live Sass Compiler and Prettier, and started to learn how to create a hamburger menu.

3. Detailed Progress this Period, separated by Team Member

Malia	Caleigh
<ul style="list-style-type: none"> ● implemented favicon <ul style="list-style-type: none"> ○ created in Google Drawings then ran through a .png to .ico converter ● added hover and active effects to links ● changed font-size from 16px to 18px and adjusted rem values ● installed Live Sass Compiler and Prettier extensions on VS Code ● updated settings in Prettier to have tabs be 2 spaces instead of 4 (also updated VS Code tab size) and to run Prettier automatically ● updated Live Sass Compiler settings.json file to have the file save location be “/styles” ● learned about sass and started using a scss file <ul style="list-style-type: none"> ○ nested rules ○ created color variables ● changed Live Server browser to Chrome figured out how to view web dimensions in pixels using Chrome Dev Tools ● finished designing sign-up and login pages in Google Drawings ● found a good Youtube tutorial for creating a hamburger menu on smaller screens 	<ul style="list-style-type: none"> ● finished uploading book covers to Github (very tedious) ● added some isbn values to original dataset in order to use x-lookup <ul style="list-style-type: none"> ○ original book dataset was a combo of a few sets from Kaggle (281,909 rows) ○ needed to be connected with dataset that came with the book covers (32,582 rows) ● there was not as many matches as I had hoped <ul style="list-style-type: none"> ○ x-lookup for titles was only 10,470 matches ○ x-lookup for isbn values did not even work (excel would not load properly, and I found out later that the book covers dataset only has 4 unique isbn values) ● continued working on “Back-End Engineer” career path <ul style="list-style-type: none"> ○ finished Web Development Fundamentals ○ started Javascript Syntax ○ used the command line to switch directories between Bookish and off-website Codecademy projects ● I decided that I would just work with the book covers dataset (with no extra x-lookup connections) for the time being because I can always add more books later. ● uploaded book covers dataset into Python and Jupyter Notebook files to start analyzing general information

Caleigh:

Python file

```
datasetUpload.py > ...
1 import pandas as pd
2 import numpy as np
3 books = pd.read_csv('main_dataset.csv')
4 books.info()
5 books.describe()
6 books.nunique()
```

Jupyter Notebook file

```
import pandas as pd
import numpy as np
books = pd.read_csv('main_dataset.csv')
books.head()
```

	image	name	author	format	book_depository_stars	price	old_price	isbn	category	img_paths
0	https://d1w7fb2mkk3kw.cloudfront.net/assets/...	This is Going to Hurt	Adam Kay	Paperback	4.5	7.6	11.4	9.780000e+12	Medical	dataset/Medical/0000001.jpg
1	https://d1w7fb2mkk3kw.cloudfront.net/assets/...	Thinking, Fast and Slow	Daniel Kahneman	Paperback	4.0	11.5	15.0	9.780000e+12	Medical	dataset/Medical/0000002.jpg
2	https://d1w7fb2mkk3kw.cloudfront.net/assets/...	When Breath Becomes Air	Paul Kalanithi	Paperback	4.5	9.05	11.5	9.780000e+12	Medical	dataset/Medical/0000003.jpg
3	https://d1w7fb2mkk3kw.cloudfront.net/assets/...	The Happiness Trap	Russ Harris	Paperback	4.0	8.34	13.9	9.780000e+12	Medical	dataset/Medical/0000004.jpg
4	https://d1w7fb2mkk3kw.cloudfront.net/assets/...	Man's Search For Meaning	Viktor E. Frankl	Paperback	4.5	9.66	NaN	9.780000e+12	Medical	dataset/Medical/0000005.jpg

```
[10] books.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 32581 entries, 0 to 32580
Data columns (total 10 columns):
#   Column                Non-Null Count  Dtype
---  -
0   image                 32581 non-null object
1   name                  32581 non-null object
2   author                32383 non-null object
3   format                32548 non-null object
4   book_depository_stars 32581 non-null float64
5   price                 32581 non-null object
6   old_price             27467 non-null float64
7   isbn                  32581 non-null float64
8   category              32581 non-null object
9   img_paths             32581 non-null object
dtypes: float64(3), object(7)
memory usage: 2.5+ MB
```

```
[12] books.nunique()

image                22708
name                 20590
author              11807
format                31
book_depository_stars 10
price                4152
old_price            932
isbn                  4
category              33
img_paths            32581
dtype: int64

[13] books['isbn'].value_counts()

isbn
9.780000e+12    32284
9.790000e+12     274
8.050000e+12     12
8.060000e+12     11
Name: count, dtype: int64
```

```
books.isnull().sum()
```

```
[14]
```

```
... image      0
     name      0
     author    198
     format    33
     book_depository_stars  0
     price     0
     old_price  5114
     isbn      0
     category  0
     img_paths  0
     dtype: int64
```

```
books.drop('image', axis=1, inplace=True)
books.drop('book_depository_stars', axis=1, inplace=True)
books.head()
```

```
[15]
```

	name	author	format	price	old_price	isbn	category	img_paths
0	This is Going to Hurt	Adam Kay	Paperback	7.6	11.4	9.780000e+12	Medical	dataset/Medical/0000001.jpg
1	Thinking, Fast and Slow	Daniel Kahneman	Paperback	11.5	15.0	9.780000e+12	Medical	dataset/Medical/0000002.jpg
2	When Breath Becomes Air	Paul Kalanithi	Paperback	9.05	11.5	9.780000e+12	Medical	dataset/Medical/0000003.jpg
3	The Happiness Trap	Russ Harris	Paperback	8.34	13.9	9.780000e+12	Medical	dataset/Medical/0000004.jpg
4	Man's Search For Meaning	Viktor E. Frankl	Paperback	9.66	NaN	9.780000e+12	Medical	dataset/Medical/0000005.jpg

Malia:

index.scss (screenshot of homepage looks the same as it did in the last progress report)

```

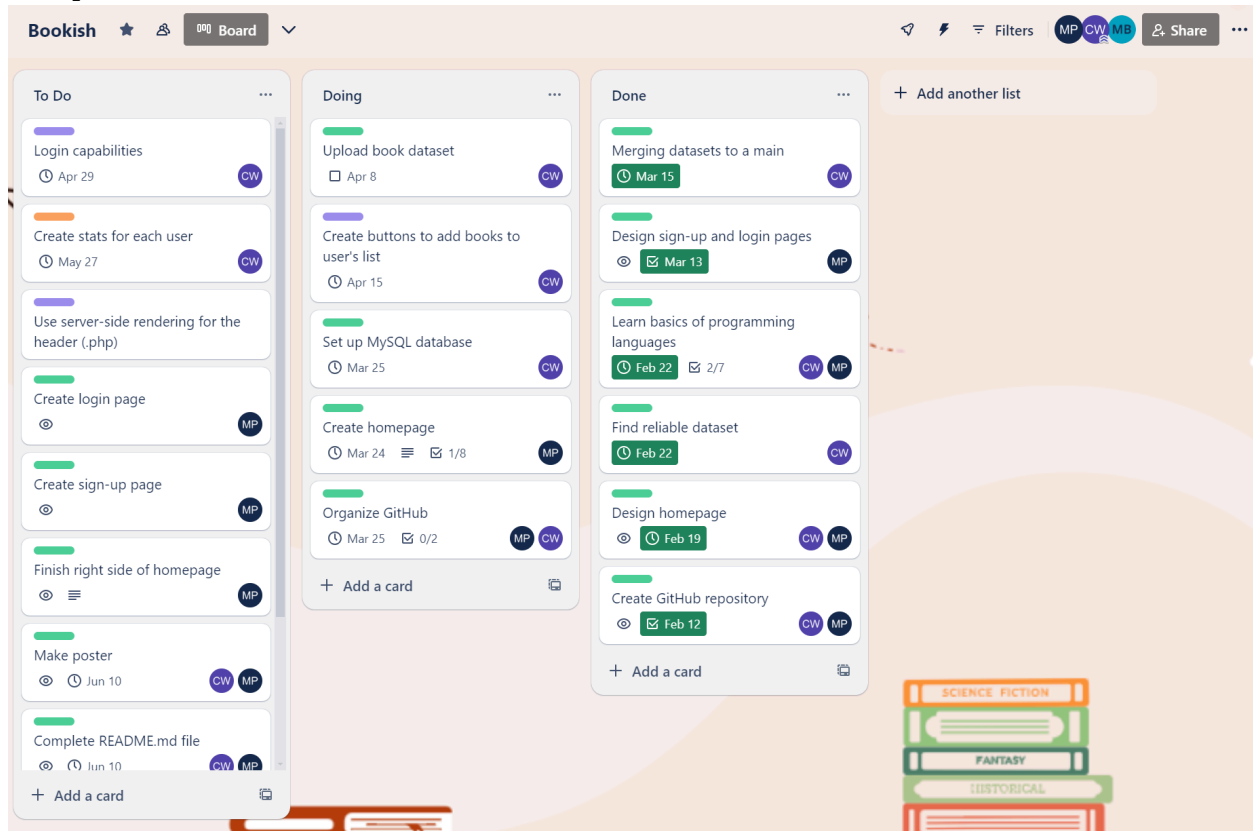
1  $brown: hsl(27, 51%, 75%);
2  $tan: hsl(22, 67%, 90%);
3  $blue: hsl(188, 51%, 75%);
4  $purple: hsl(262, 44%, 66%);
5
6  * {
7    box-sizing: border-box;
8    margin: 0;
9    padding: 0;
10   font-size: 18px;
11 }
12
13 body {
14   font-family: "Roboto Mono", monospace;
15   font-optical-sizing: auto;
16   font-weight: 400;
17   font-style: normal;
18   background-color: $tan;
19 }
20
21 #grid-container {
22   display: grid;
23   grid-template-areas:
24     "header header"
25     "intro .";
26   grid-template-rows: 1fr 7fr;
27   grid-template-columns: 4fr 5fr;
28   height: 100vh;
29   width: 100vw;
30 }
31
32 header {
33   grid-area: header;
34   background-color: $brown;
35   display: flex;
36   align-items: center;
37   justify-content: space-between;
38   overflow: auto;
39 }
40
41 #logo {
42   height: 4.5rem;
43   width: auto;
44 }
45
46 nav {
47   display: flex;
48   align-items: center;
49   gap: 3rem;
50   margin-left: 1rem;
51   flex-shrink: 0;
52 }
53
54 .sign-in {
55   display: flex;
56   align-items: center;
57   gap: 1.5rem;
58   margin-right: 1rem;
59   margin-left: 3rem;
60   flex-shrink: 0;
61 }
62
63 main {
64   grid-area: intro;
65   border-right: 2rem solid $brown;
66   border-left: 2rem solid $brown;
67   border-bottom: 2rem solid $brown;
68   padding: 5%;
69   overflow: auto;
70 }
71
72 a {
73   color: black;
74   text-decoration: none;
75   &:hover {
76     color: hsl(262, 90%, 75%);
77   }
78   &:active {
79     text-decoration: underline;
80   }
81 }
82
83 button {
84   background-color: $blue;
85   border: transparent;
86   border-radius: 0.5rem;
87   font-family: "Roboto Mono", monospace;
88   padding: 0.5rem 0.6rem;
89   &:hover {
90     background-color: hsl(262, 50%, 75%);
91     transition: 1s;
92   }
93   &:active {
94     text-decoration: underline;
95   }
96 }
97
98 main {
99   h1 {
100     padding: 0.25rem 0 1.5rem;
101     font-size: 2rem;
102     font-weight: 450;
103   }
104   span {
105     font-size: 2rem;
106     font-weight: 450;
107   }
108   p {
109     padding-bottom: 1.5rem;
110     line-height: 1.5rem;
111   }
112   button {
113     font-size: 1.1rem;
114     margin: 0.25rem;
115   }
116 }
117
118 .purple-text {
119   color: $purple;
120 }
121
122 .blue-text {
123   color: hsl(188, 51%, 65%);
124 }
125
126 @media (max-width: 1040px) {
127   /*add hamburger menu*/
128 }

```

4. **Difficulties Encountered this Progress Period**

Malia	Caleigh
<ul style="list-style-type: none"> ● it was difficult to design the favicon so that it looked good at such a small size <ul style="list-style-type: none"> ○ had to try multiple designs ● changed overflow to auto on the header and main to view properly with Dev Tools ● hamburger menu requires a lot of JavaScript, which I am still trying to learn ● had to add ampersand when nesting pseudo classes in scss 	<ul style="list-style-type: none"> ● found out that there are multiple isbn values for the same book but different publishers, so I will have to address that at some point ● Excel took several tries to get isbn find to work but would not let me sort & filter (in order to count the total) and crashed ● took a bit to figure out how to upload dataset into VS Code <ul style="list-style-type: none"> ○ had to check off a setting in order for it to work ● Python files in VS Code do not output the way I am used to, so I am using a Jupyter Notebook for the time being to test my code. I will figure out later on which works better when connecting it to the website.

5. Updated Trello Board and Discussion



<https://trello.com/b/0IK9w4IL/bookish>

“Merging datasets to a main” was moved to **Done** because Caleigh completed that task, although modifications to the main dataset may be made later on. “Upload book dataset,” “Create buttons to add books to user’s list,” and “Set up MySQL database” were left in **Doing** because they are still being worked on. “Organize Github” was **added** and moved to **Doing** in order to remind us to update our README file and organize files within the branches. Dates on some tasks were pushed back accordingly.

6. Tasks to Be Worked on in Next Progress Period

Malia	Caleigh
<ul style="list-style-type: none"> learn basic JavaScript add footer and media queries for homepage (including hamburger menu) create login page, sign-up page, and about us page 	<ul style="list-style-type: none"> continue “Back-End Engineer” career path on Codecademy <ul style="list-style-type: none"> will be getting to actual backend stuff during the next sprint change img paths to actual path in order to upload book covers to website properly

	<ul style="list-style-type: none">● figure out difference between using Python and Jupyter Notebook file for a website / using MySQL database (haven't gotten to research MySQL much yet)● upload main book dataset to website● attempt to create buttons to add books to user's list<ul style="list-style-type: none">○ assuming that the dataset uploads properly before next sprint● update README file
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7. Additional Information